

FIGURE 1. Concentration of IFN- $\gamma$ , IL-4 and IL-5 in spleen cell supernatants of mice infected with *M. avium*, *S. mansoni* or both organisms. Splenocytes ( $4 \times 10^5$ /well) were cultured *in vitro* for 48h at 37°C in 200  $\mu$ l medium in the presence or absence of optimal concentrations of PPD or soluble schistosome egg antigen (SEA). Cytokine secretion was quantified by ELISA.

Fig. 1

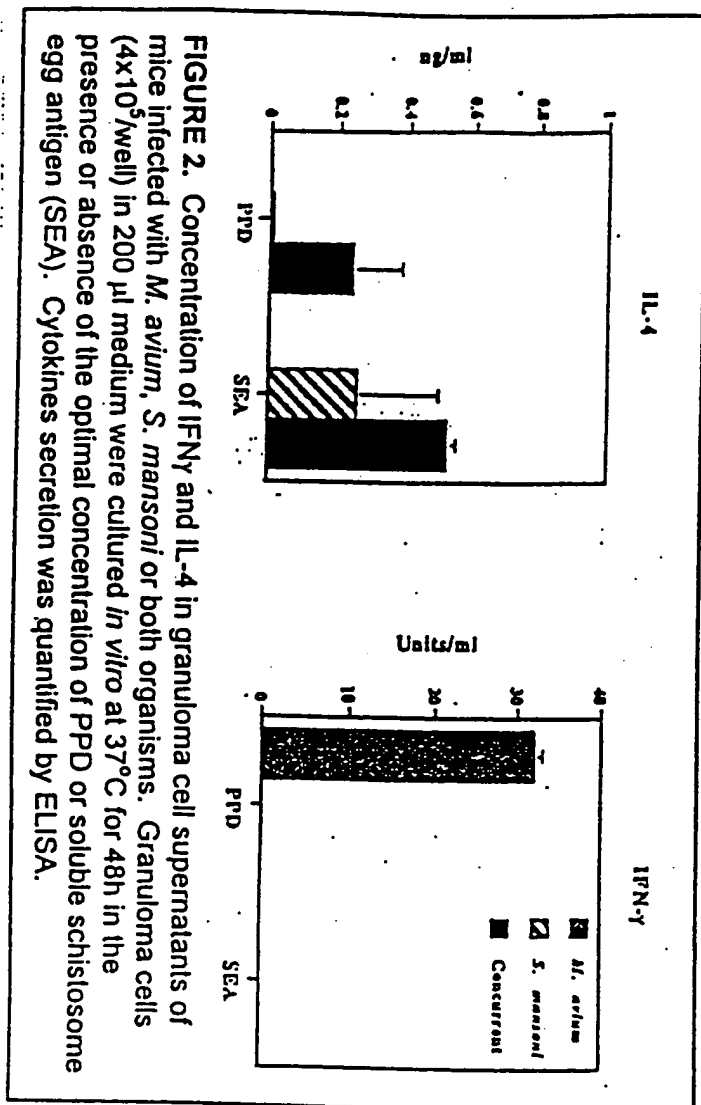


Fig. 2

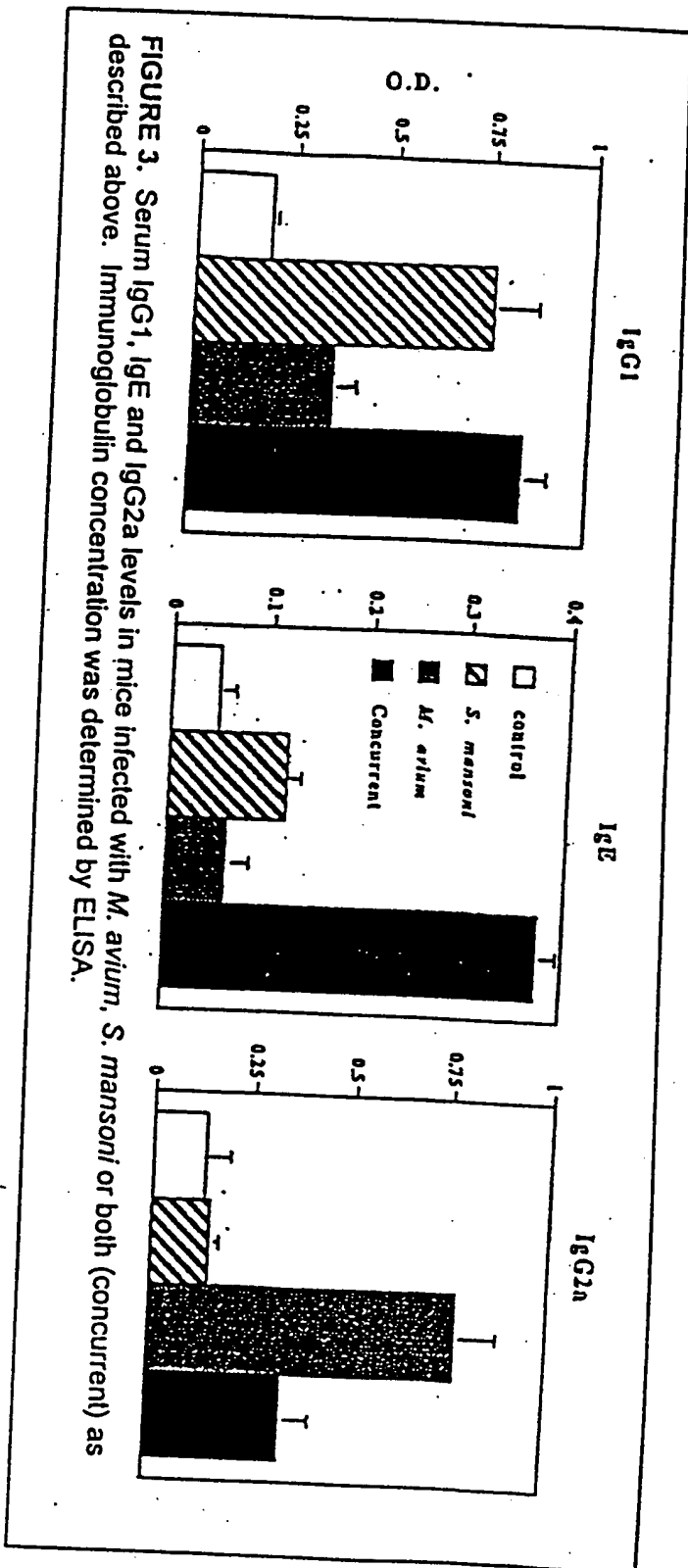
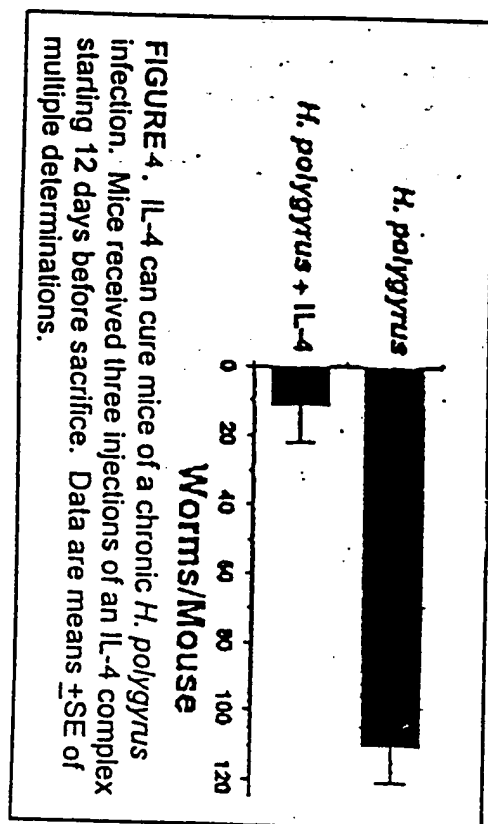


FIGURE 3. Serum IgG1, IgE and IgG2a levels in mice infected with *M. avium*, *S. mansoni* or both (concurrent) as described above. Immunoglobulin concentration was determined by ELISA.

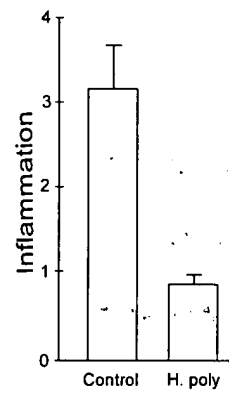
Fig. 3



**FIGURE 4.** IL-4 can cure mice of a chronic *H. polygyrus* infection. Mice received three injections of an IL-4 complex starting 12 days before sacrifice. Data are means  $\pm$  SE of multiple determinations.

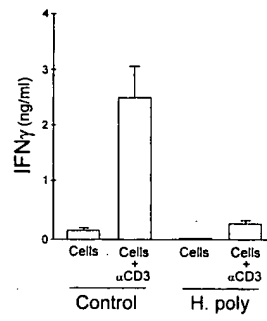
Fig 4

**MICE PREVIOUSLY COLONIZED  
WITH AN INTESTINAL HELMINTH  
DEVELOP ATTENUATED TNBS  
COLITIS**



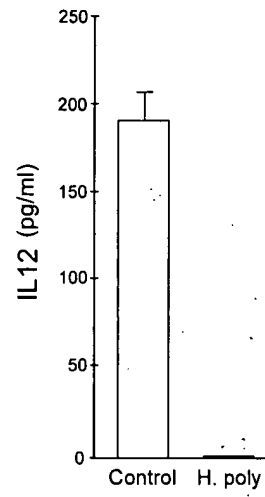
**Fig 5**

**COLONIZATION WITH *H. POLYGYRUS* INHIBITS  
MUCOSA  
IFN $\gamma$  REPONSIVENESS**



**Fig 6**

***H. POLYGYRUS* BLOCKS  
MUCOSA IL12 SYNTHESIS**



**Fig 7**

COLONIZATION WITH *H. POLYGYRUS* PROMOTES  
MUCOSA IL10 PRODUCTION

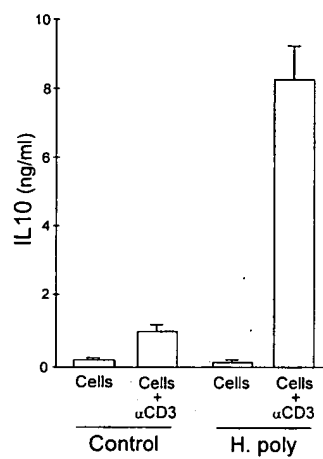
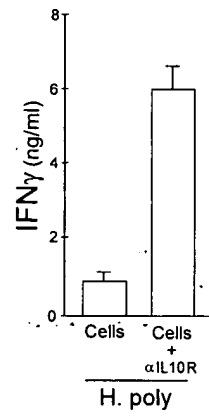


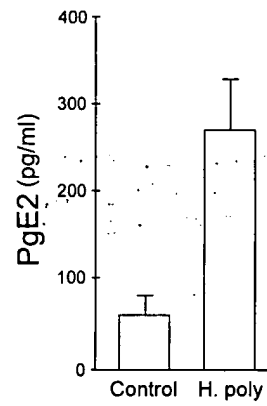
Fig 8

**BLOCKADE OF IL10R  
ENHANCES LPMC IFN $\gamma$   
PRODUCTION**



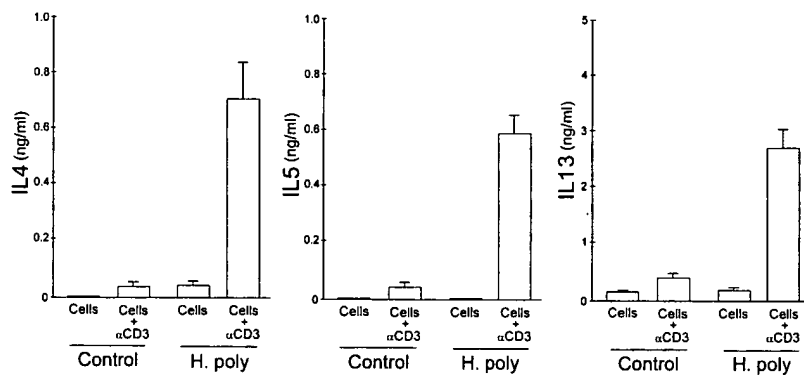
**Fig 9**

**COLONIZATION WITH *H.*  
*POLYGYRUS* PROMOTES  
MUCOSA PGE<sub>2</sub>  
PRODUCTION**



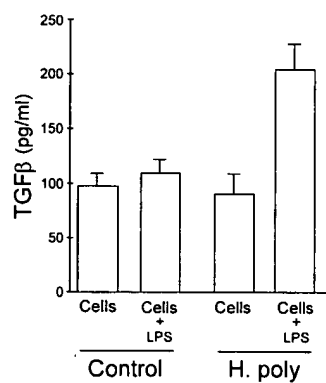
**Fig 10**

# COLONIZATION WITH *H. POLYGYRUS* PROMOTES MUCOSA IL4, IL5 AND IL13 PRODUCTION



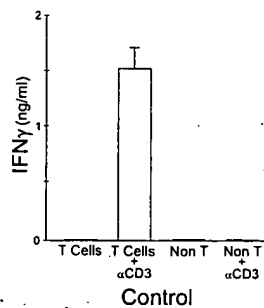
**Fig 11**

**COLONIZATION WITH *H. POLYGYRUS* PROMOTES  
MUCOSA TGF $\beta$  PRODUCTION**



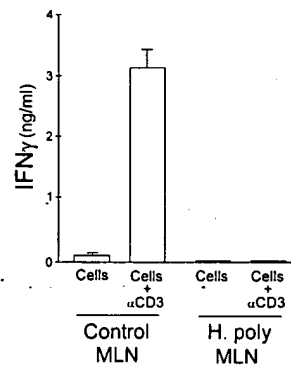
**Fig 12**

**T CELLS MAKE THE IFN $\gamma$  IN  
THE INTESTINAL MUCOSA OF  
HEALTHY WT MICE**



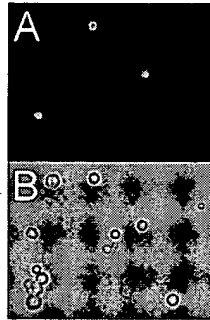
**Fig 13**

**TRANSFER OF MLN CELLS FROM *H* *POLYGYRUS*-BEARING MICE INTO UNINFECTED WT MICE INHIBITS LPMC IFN $\gamma$  RESPONSIVENESS**



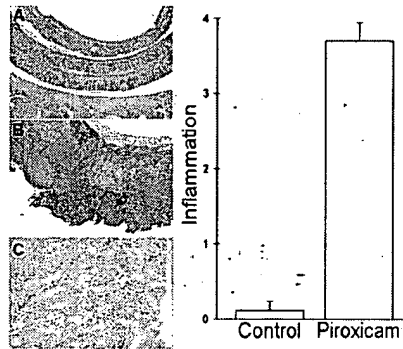
**Fig 14**

**MLN T CELLS FROM MICE BEARING *H.*  
*POLYGYRUS* ENTER GUT MUCOSA  
WHEN TRANSFERRED INTO WT  
RECIPIENTS**



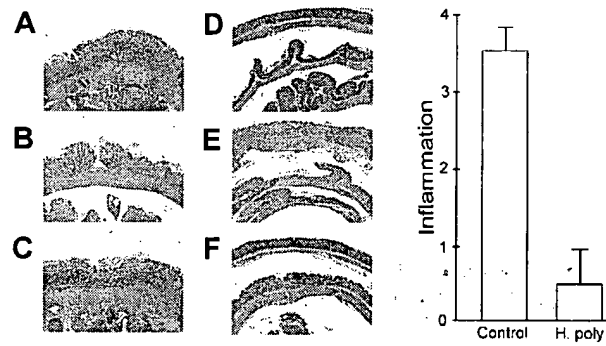
**Fig 15**

**PIROXICAM-INDUCED COLITIS IN  
IL10-/- MICE**



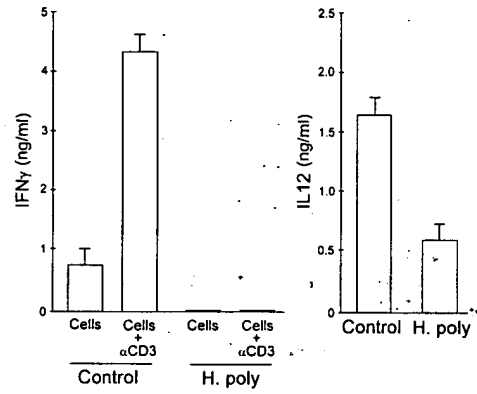
**Fig 16**

***H. POLYGYRUS* REVERSES ESTABLISHED ACTIVE  
PIROXICAM-INDUCED IL10<sup>-/-</sup> COLITIS**



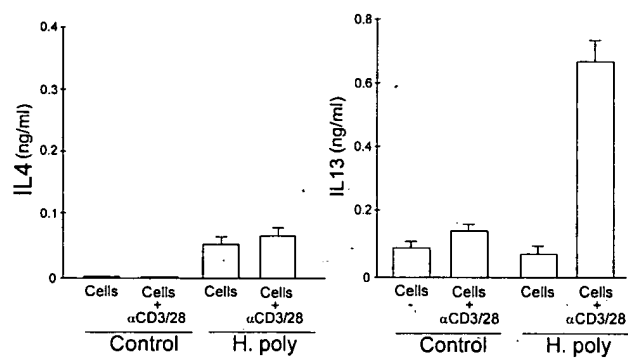
**Fig 17**

***H. POLYGYRUS* BLOCKS LPMC IFN $\gamma$  AND  
IL12 PRODUCTION IN IL10 $^{-/-}$  COLITIS**



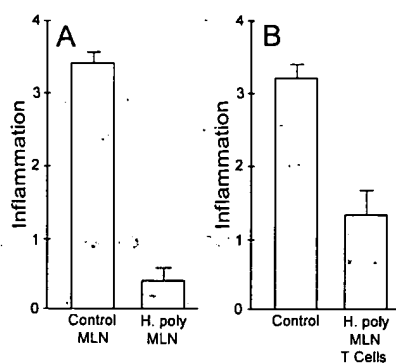
**Fig 18**

***H. POLYGYRUS* AUGMENTS LPMC IL4 AND IL13  
PRODUCTION IN IL10<sup>-/-</sup> COLITIS**



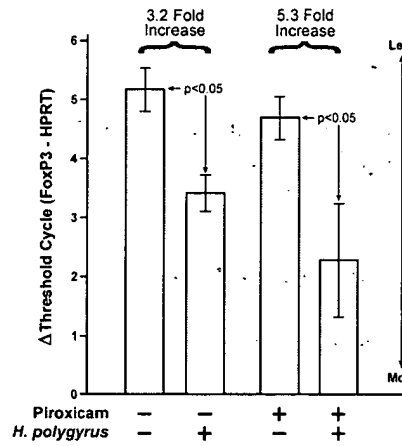
**Fig 19**

**MLN CELLS FROM IL10KO MICE  
COLONIZATION WITH *H.*  
*POLYGYRUS* INHIBIT ACTIVE  
IL10KO IBD**



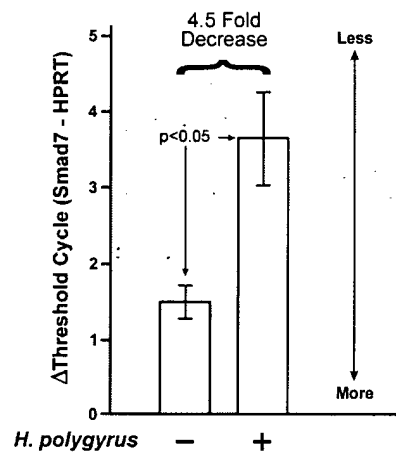
**Fig 20**

***H. POLYGYRUS* AUGMENTS MLN  
CELL EXPRESSION OF *Foxp3*  
mRNA AS MEASURED WITH  
REAL TIME RT-PCR**



**Fig 21**

***H. POLYGYRUS* REDUCES MLN  
CELL EXPRESSION OF *Smad7*  
mRNA AS MEASURED WITH  
REAL TIME RT-PCR**



**Fig 22**

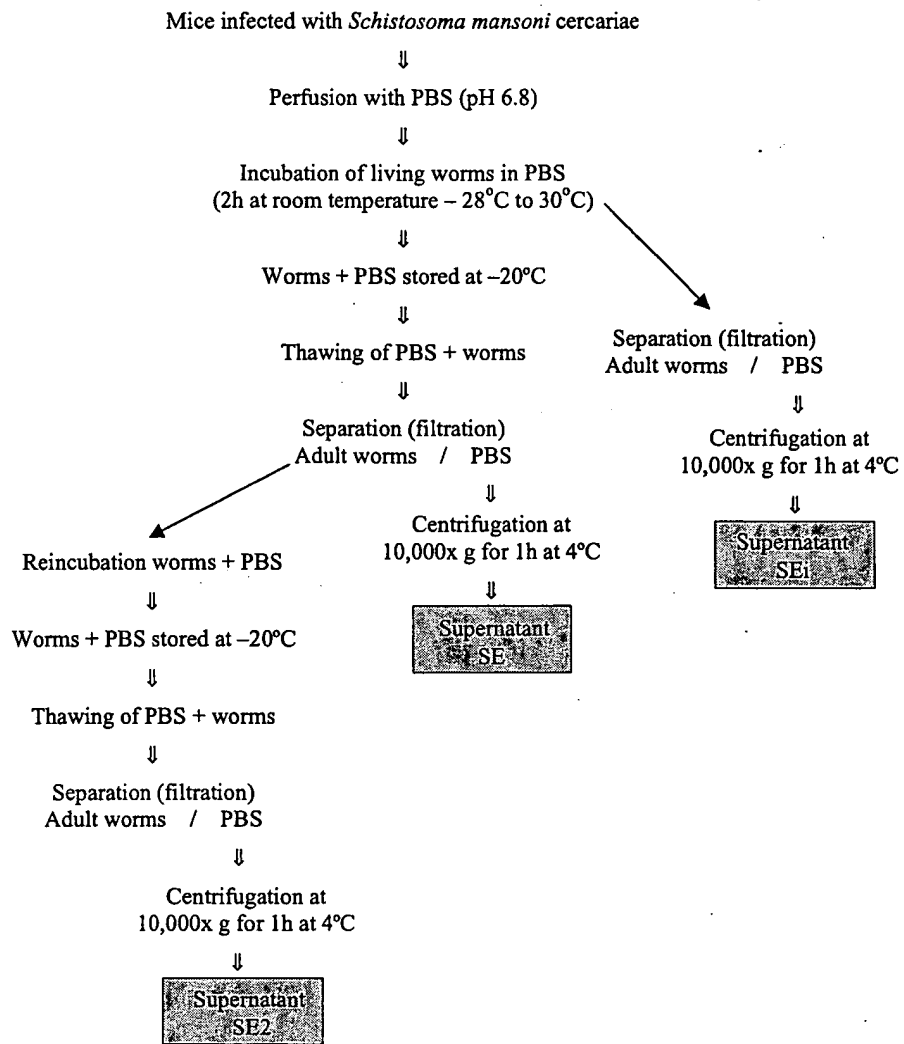


Fig. 1: antigens - diagram of extraction procedures